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DIALOG(R) File 351: Derwent WPI
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AA- 1992-403385/199249|
XR- <XRAM> C92-179159]
TI- Lipid decomposition enzyme inhibitor preventing hyperlipaemia and
    obesity - contains basic proteins, extracted from wheat germ with
    acidic soln.
PA- NISSHIN FLOUR MILLING CO (NISS ) |
NC- 001
NP- 0021
PN- JP 4300839
                  A 19921023 JP 9187246
                                             A 19910328 199249 BI
PN- JP 3009498
                  B2 20000214 JP 9187246
                                             A 19910328 200013|
AN- <LOCAL> JP 9187246 A 19910328; JP 9187246 A 19910328|
AN- <PR> JP 9187246 A 19910328|
FD- JP 4300839
                  A A61K-037/64
FD- JP 3009498
                  B2 A61K-038/55
                                    Previous Publ. patent JP 4300839|
LA- JP 4300839(5); JP 3009498(5)|
AB- <BASIC> JP 4300839 A
        A lipid decompsn. enzyme inhibitor contains basic proteins from
    wheat germ as the active component. In the prepn. of basic proteins,
    wheat germ is extracted with an acidic soln.
         USE/ADVANTAGE - The inhibitor prevents hyperlipaemia and fatness.
    The method can prepare the basic proteins by a simple manner safely.
         In an example, 50g defatted wheat germ is mixed with 5 times amt.
    of water and the mixt. is stirred at room temp. for 2 hrs. and
    centrifuged for 20 min. The ppt. is mixed with 5 times amount of water
    and centrifuged. The procedure is repeated 3 times. The ppte. is mixed
    with 5 times amt. of water and the pH is adjusted to 2.0 with 6N HCl.
    The mixt. is stirred at room temp. for 2 hrs. and centrifuged. The acid
    extraction is repeated. The acid-soluble fraction is recovered and its
    pH is adjusted to 7.0 with NaOH. NaCl and Tris buffer are added and the
    mixture is fed to a CM-Toyopearl column and eluted by Tris buffer
    contg. NaCl. The elute is freeze-dried to give 50mg powder. It is a
    mixt. of several basic proteins. Pig pancreas lipase activity is
    inhibited to 20.1% by a dose of 500 microg/1 of the basic protein.
        Dwg. 0/01
DE- <TITLE TERMS> LIPID; DECOMPOSE; ENZYME; INHIBIT; PREVENT; HYPERLIPAEMIA
    ; OBESITY; CONTAIN; BASIC; PROTEIN; EXTRACT; WHEAT; GERM; ACIDIC;
    SOLUTION
DC- B041
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IC- <MAIN> A61K-037/64; A61K-038/55|

IC- <ADDITIONAL> A61P-003/06; C07K-003/02; C07K-003/20; C07K-015/10|

MC- <CPI> B04-B04F; B12-H03; B12-J02|

FS- CPI |

JP 4300839

PURPOSE:To suppress or inhibit lipolysis, prevent ingested lipids from being rapidly absorbed in bodies, suppress the amount of the total absorbed fats and prevent hyperlipemia and obesity by inhibiting activity of a lipolytic enzyme.

CONSTITUTION: A lipolytic enzyme inhibitor containing a basic protein derived from wheat embryo buds as an active ingredient. Furthermore, a basic protein, derived from wheat embryo buds and having amino acids ranging from the 1st to the 40th residues counted from the N-terminal as follows. Gly-Lys-Val-His- GlyS-er-Leu-Ala-Arg-Ala-Gly-Lys-Val-Arg-Gly-Gln-Thr-Pro-Lys-Val-Ala-Lys-Gln- Asp-Lys-Lys-Lys-Gln-Pro-Arg-Gly-Gly-Arg-Ala-H-is-Lys-Arg-Ile-Gin-Tyr-Asn. The number of total bound amino acids is within the range of about 60-100.